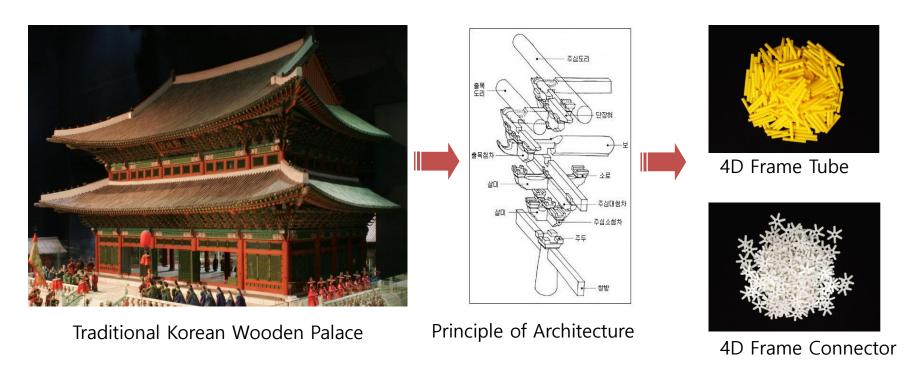






The Brand: 4D Frame

- The 4Dframe educational modelling kit is based upon the analysis of building techniques utilized in the construction of Korea's traditional, wooden buildings, in which no any nails have been used.
- ❖ 4Dframe has been proved to be a very appropriate tool for developing various skills in the transdisciplinary framework of STEAM learning.

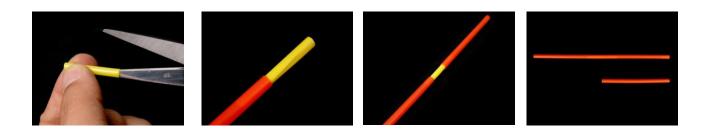




Character: Flexibility



Bend, Cut & Connect!



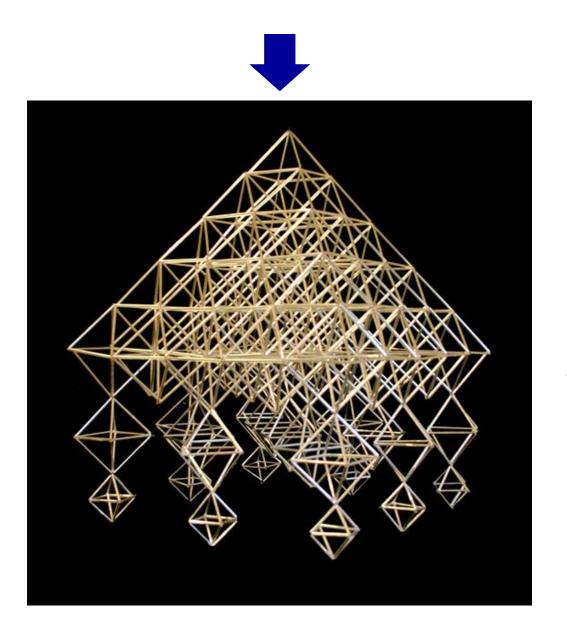


Character: Infinite Expansion





Character: Infinite Expansion



The traditional Nordic christmas decoration: the himmeli





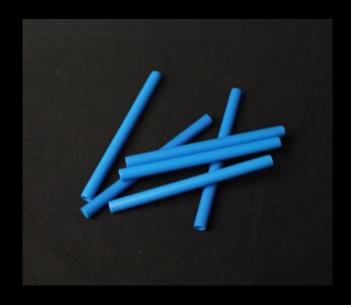












Tubes



Connectors



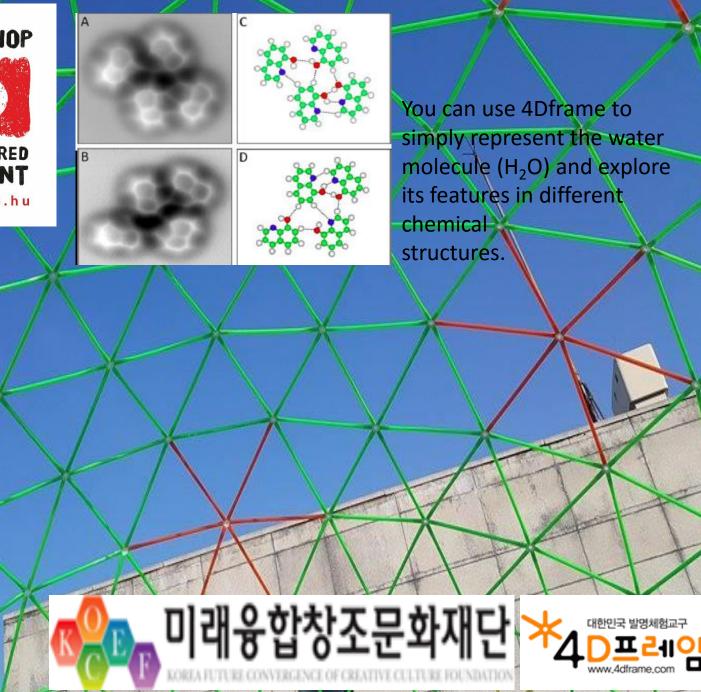
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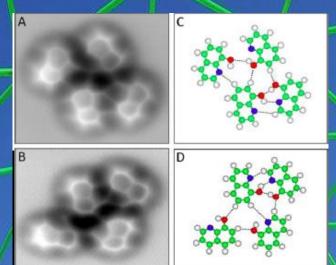
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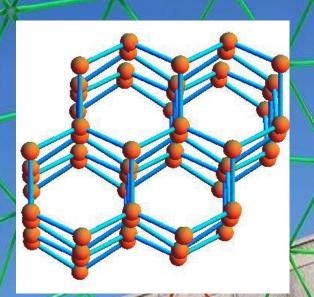


VISUALITY & Mathematics

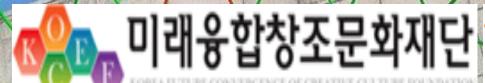
EXPERIENTIAL EDUCATION
OF MATHEMATICS THROUGH
VISUAL ARTS, SCIENCES
AND PLAYFUL ACTIVITIES



You can use 4Dframe to simply represent the water molecule (H₂O) and explore its features in different chemical structures.



....or you can show how the water's molecular structure look a like when it is freezing:





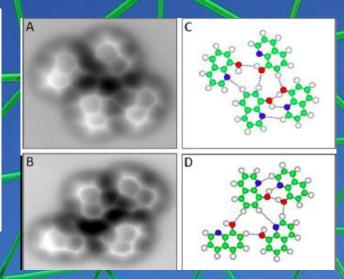


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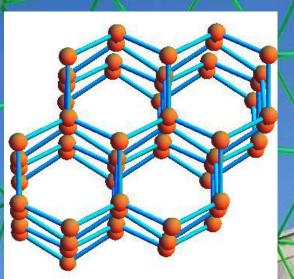
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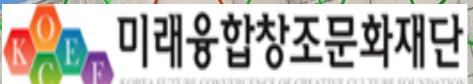


You can use 4Dframe to simply represent the water molecule (H₂O) and explore its features in different chemical structures.



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the water molecules in an ice crystal form themselves into a six-sided lattice...







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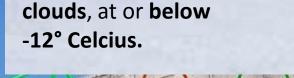
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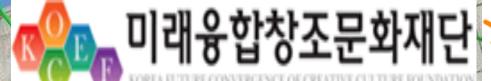




Snow is "solid" rain. It forms when fine drops of very cold water attach themselves to dust particles or to bacteria and then freeze.

This situation occurs within clouds, at or below











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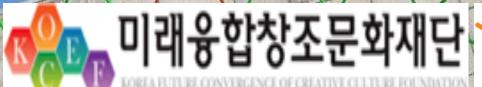


The surrounding **temperature** and humidity influence how each **crystal** develops.

If it is very cold, with a high level of humidity, six-sided hollow columns will form.

If the weather is warmer, sixsided stars will appear.

Each and every crystal follows its own particular path on its way downwards and the tiniest fluctuations in temperature and humidity will have an effect on its appearance.









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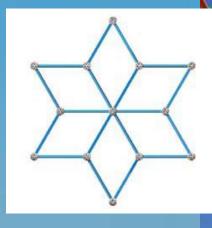




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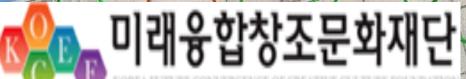
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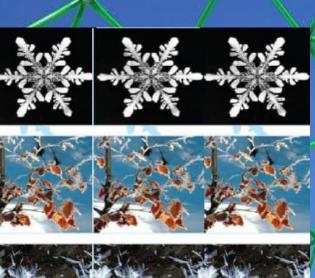




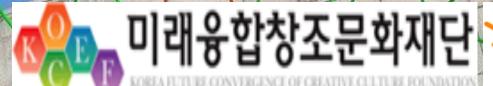


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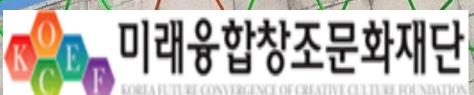














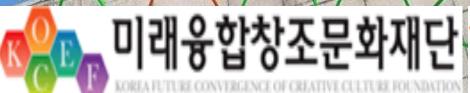


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[초등6 과학] 날씨의 변화 [중등1 과학] 물질의 세가지 상태

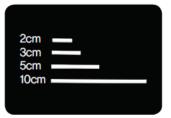
NO: 4DS-034 특허: 실용신안 제0379499호

신비로운 육각형 구조 눈 결정체

■ 재료 구성: [연결봉] 2cm, 3cm, 5cm, 10cm [연결발] 2발, 3발, 6발

눈 결정체가 육각형인 이유는 무엇일까요? 물분자(H₂O)는 산소(O)와 수소(H)가 104,5도의 각도로 이루어져 있기 때문에 온도가 낮아져 얼어 붙게 되면 입체적인 육각형 구조가 되며 습도와 온도에 따라 결정체의 형태가 달라집니다.

부 품 구 성











■여러 형태의 눈 결정체

















(ID) ① 연결봉에 연결발을 끼울 때 연결봉 끝을 살짝 눌러서 끼우면 보다 쉽게 들어갑니다. ② 연결발 중앙 구멍에 연결봉을 넣을 시 4D 로고가 없는 면으로 넣으면 쉽게 들어갑니다.

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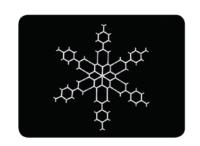
신비로운 육각형 구조 눈 결정체

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■여러 형태의 눈 결정체

























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